B/64 (07-05)

Approved for use through 07/31/2006. OMB 0851-0031
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PETITION FOR	REVIVAL O	F AN AP	PLICATION	FOR	PATENT
ABANDONED U	UNINTENTIC	NALLY	UNDER 37	CFR 1.	137(b)

Docket Number (Optional) 108910-08056

First named inventor:

BRINATI

Application No.:

08/885,770

Filed:

June 30, 1997

Title:

VDF Polymerization Process

Art Unit:

1713

Examiner:

SAROFIM

Attention: Office of Petitions

Mail Stop Petition

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the office notice or action plus an extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:

- (1) Petition fee:
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee required for all utility and plant applications filed before June 8, 1995; and for all design applications; and

(4) Statement that the entire delay was unintentional.
1.Petition fee Small entity-fee \$ (37 CFR 1.17(m)). Applicant claims small entity status. See 37 CFR 1.27. Other than small entity – fee \$ (37 CFR 1.17(m))
Reply and/or fee A. The reply and/or fee to the above-noted Office action in the form ofContinued Prosecution Application(identify type of reply):
x has been filed previously on <u>June 30, 1997</u> . x is enclosed herewith.
B. The issue fee and publication fee (if applicable) of \$ has been paid previously on is enclosed herewith.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/64 (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

3. Terminal disclaimer with disclaimer fee	. Terminal disclaimer with disclaimer fee						
X Since this utility/plant application was filed	X Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.						
A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ for a small entity or \$ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).							
filing of a grantable petition under 37 CFR 1.137 Trademark Office may require additional information	aired reply from the due date for the required reply until the 7(b) was unintentional. [NOTE: The United States Patent and ation if there is a question as to whether either the der 37 CFR 1.137(b) was unintentional (MPEP 711.03(c),						
WARNING: Information on this form may included on this form. Provide credit card	become public. Credit card information should not be d information and authorization on PTO-2038.						
Richal	September 14, 2005						
Signature	Date						
Richard J. Berman	a 39,107						
Typed or printed name	e Registration Number, if applicable						
Arent Fox PLLC, 1050 Connecticut	Avenue, N.W. 202-857-6232						
Address	Telephone Number						
Washington, DC 20036-53 Address Enclosures: Fee Payment X Reply							
Terminal Disclaimer Form							
X Additional sheets containing sta	atements establishing unintentional delay						
Other:							
Outer							
CERTIFICATE OF MAILIN	G OR TRANSMISSION [37 CFR 1.8(a)]						
	ostal Service on the date shown below with sufficient relope addressed to: Mail Stop Petition, Commissioner for						
Transmitted by facsimile on the date Office as (571) 273-8300.	e shown below to the United States Patent and Trademark						
Date	Signature						
	Typed or printed name of person signing certificate						





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Brinati et al.

Group Art Unit: 1713

Application Serial No.: 08/885,770

Examiner: Sarofim, N.

Filed: June 30, 1997

Attorney Docket No.: 108910-08056

For: VDF Polymerization Process

September 14, 2005

REQUEST FOR RECONSIDERATION UNDER 37 C.F.R. §1.137(e)

Mail Stop PETITIONS Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The applicants respectfully request reconsideration of the Decision on Petition dated August 23, 2005.

The applicants' previous Petition under 37 C.F.R. §1.181(a) to withdraw the holding of abandonment was dismissed under 37 C.F.R. §1.181(f) because it was not filed within 2 months of the mailing date of the Notice of Abandonment (dated March 29, 1999). In response, the applicants respectfully submit that:

- (1) they were unaware of the relevance of the prior Notice of Abandonment until just before December 2, 2004, at which point they filed the Petition under 37 C.F.R. §1.181(a);
- (2) the applicants clearly filed a Request Form For Continuing Prosecution Application under 37 CFR §1.53(d) along with an Amendment and Petition for Extension of Time for two months on January 13, 1999. Therefore the original Notice of Abandonment was improperly issued by the U.S. Patent and Trademark Office; and

Application Serial No.: 08/885,770

Inventor(s): BRINATI et al.

Attorney Docket No.: 108910-08056

(3) 37 C.F.R. §1.181(f) permits the Director of the U.S. Patent and Trademark Office to grant this petition regardless of the delay ("Any petition under this part not filed within two months of the mailing date of the action or notice from which relief is requested may be dismissed as untimely, except as otherwise provided." (emphasis added)).

The applicants respectfully submit that they have made a *bona fide* attempt to respond to the Notice of Abandonment as soon as they became aware of it and respectfully request that the Director reconsider the Decision on the applicants' Petition and grant this Petition.

In the alternative, <u>if</u> the Director rejects the applicants' Request for Reconsideration, the applicants enclose a Petition for Revival of an Application for Patent Abandoned Unintentionally under 37 C.F.R. §1.137(b) along with copies of the relevant documents. The Director is authorized to charge the amount of \$1500.00 to cover the petition fee under 37 C.F.R. §1.17(m) to Deposit Account No. 01-2300, referencing Attorney Docket No. 108910-08056, if the Director accepts the applicants' Petition for Revival of an Application for Patent Abandoned Unintentionally.

The applicants believe that no fee is due for this Request for Reconsideration. In the event that a fee is required, it may be charged to Deposit Account No. 01-2300, referencing Attorney Docket No. 108910-08056.

Respectfully submitted,

ARENT FOX PLLC

Richard J. Berman

Registration No.: 39,107

Customer No.: **004372**

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-5339

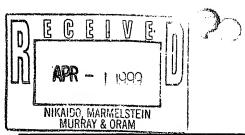
Telephone No.: 202-857-6000 Facsimile No.: 202-857-6395

RJB/GP



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Patent X	Trademark 🗆	Docket No	P8910-805	56
Serial No	08/885,770	Filed_	June 30,	1997
Applicant(s	s)	BRINATI	et al.	
Papers file	d herewith on	January 1	3, 1999	DE JCD
☐ New Amer ☐ Notic ☐ IDS/P	e of Appeal TO-1449	[[] Itinued Prosecti	☐ Assignmen ☐ Declaration ☐ Priority Doc ☑ Req. for Ex ☐ Drawings on Application	cument MM 3 1988 ESTABLES TO THE STREET & TRIBLES ON; Preliminary Amendment
	hereby acknow			s indicated in connection with
Check No POU/fcs	. 18459		1	COMMISSIONER OF PATENTS





UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

ATTORNEY DOCKET NO. FIRST NAMED APPLICANT APPLICATION NUMBER FILING DATE U 1907 1351114IZ 1011/0329 EXAMINER MIKAIDO, MARMELSTEIN- MURRAY & ORAM SEP 14 2005 METPOPOLITAN SOUARE 655 1516 51 NW ART UNIT PAPER NUMBER SIE 330 6 ST LORBY WASHINGTON OF 10005-0501 11 03/29/99 DATE MAILED:

NOTICE OF ABANDONMENT ()

This	application is abandoned in view of:
X.	Applicant's failure to timely file a proper response to the Office letter mailed on $\frac{8/20/98}{}$.
	A response (with a Certificate of Mailing or Transmission of) was received on, which is after the expiration of the period for response (including a total extension of
	time ofmonth(s)) which expired on
	time ofmonth(s)) which expired on A proposed response was received on
	(A proper response to a final rejection consists only of: a timely filed amendment which places the application in condition for allowance; a Notice of Appeal; or the filing of a continuing application under 37 CFR 1.62 (FWC).
	☐ No response has been received.
	Applicant's failure to timely pay the required issue fee within the statutory period of three months from the mailing date of the Notice of Allowance.
	The issue fee (with a Certificate of Mailing or Transmission of) was received on
	☐ The submitted issue fee of \$is insufficient. The issue fee required by 37 CFR 1.18 is \$
	☐ The issue fee has not been received.
	Applicant's failure to timely file new formal drawings as required in the Notice of Allowability.
	Proposed new formal drawings (with a Certificate of Mailing or Transmission of) were received on
	☐ The proposed new formal drawings filed are not acceptable.
	☐ No proposed new formal drawings have been received.
	The express abandonment under 37 CFR 1.62(g) in favor of the FWC application filed on
	The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.
	The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a) upon the filing of a continuing application.
	The decision by the Board of Patent Appeals and Interferences rendered on and because the period for seeking court review of the decision has expired and there are no allowed claims.
	The reason(s) below: BERNARD LIPMAN

BEST AVAILABLE COPY

BERNARD LIPMAN EXAMINER ART UNIT 155/1779



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

BRINATI et al.

Serial Number: 08/885,770

Group Art Unit: 1713

Filed: June 30, 1997

Examiner: N. Sarofim

For:

VDF POLYMERIZATION PROCESS

PETITION FOR EXTENSION OF TIME

Assistant Commissioner for Patents Washington, D.C. 20231

January 13, 1999

Sir:

Applicants petition the Commissioner of Patents and Trademarks to extend the time for response to the Office Action dated August 20, 1998, for a two (2) month extension from November 20, 1998 to January 20, 1999.

Enclosed please find a check in the amount of Three Hundred Eighty Dollars (\$380.00) to cover the Government Fee for this extension. In the event that this check becomes detached or is insufficient, or if any additional fees are required with respect to this paper, please charge our Deposit Account No. 14-1060.

Respectfully submitted,

NIKAIDO, MARMELSTEIN, MURRAY & ORAM LLP

James A. Poulos, III
Attorney for Applicants
Registration No. 31,714

Atty. Docket No. P8910-8056 Metropolitan Square 655 Fifteenth Street, N.W. Suite 330 - G-Street Lobby Washington, D.C. 20005-5701 (202) 638-5000 POU:fcs

- '

Enclosures: Response / Check #18459





Docket No. <u>P8910-8056</u>

Date <u>January 13, 1999</u>

REQUEST FORM FOR CONTINUING PROSECUTION APPLICATION UNDER 37 C.F.R. §1.53(d)

Assistant Commissioner for Patents Box CPA Washington, D.C. 20231

This is a Request for filing a \underline{xx} continuation or $\underline{}$ divisional application under 37 C.F.R. §1.53(d) of prior Application No. $\underline{08/885,770}$, filed on $\underline{\underline{June 30, 1997}}$ entitled:

VDF POLYMERIZATION PROCESS

By the following named inventor(s):

Giulio BRINATI; Paolo LAZZARI; and Vincenzo ARCELLA

The above identified prior application in which no payment of the issue fee, abandonment of, or termination of proceedings has occurred, is hereby expressly abandoned as of the filing date of this new application. The Prior Application identified above was a non-provisional application that is complete as defined by 37 C.F.R. §1.51(b) or a national stage of an international application in compliance with 35 U.S.C. §371 and was filed on or after June 8, 1995.

- 1. <u>xx</u> Enter the non-entered amendment previously filed on <u>November 18, 1998</u> under 37 C.F.R. §1.116 in the prior non-provisional application.
- 2. xx- A Preliminary Amendment is enclosed.

The filing fee is calculated on the basis of the claims existing in the prior application as amended at 1 and 2 above.

	Numbe Filed	Γ		Number Extra		Rate			Basic Fee \$760.00
Total Claim(s)	13	_	20	0	×	18.00			\$760.00
Independent Claim(s)	1	-	3	0	×	78.00			\$
Multiple Dependent Claims	<u> </u>				+	260.00			\$
							TOTAL		\$760.00
Reduction by ½ for small entity								_	\$
				·	TO	TAL FILIN	G FEE	=	\$760.00

3. XX Our check in the amount of Seven Hundred Sixty Dollars (\$760.00) is enclosed to cover the required fees. In the event that any other fees are required with respect to the filing of this application, please charge our Deposit Account No. 14-1060. Any overpayment may be credited to the same account.

- 4. A new oath or declaration is included.
- 5. = A Verified Statement to establish small entity status under 37 C.F.R. §1.9 and §1.27 = is enclosed = was filed in the prior application and such status is still proper and desired.
- 6. _ An Information Disclosure Statement with PTO-1449 and _ references is enclosed.
- 7. XX Applicants hereby petition that the period for response to the Official Action dated August 20, 1998 in the parent Application No. 08/885,770, be extended, if necessary, to the filing date of the present file wrapper continuing application. The fee for any such extension may be charged to our Deposit Account No. 14-1060.
- 8. XX- Also enclosed: Petition for Extension of Time

Address all future communications to:

NIKAIDO, MARMELSTEIN, MURRAY & ORAM LLP

Metropolitan Square 655 Fifteenth Street, N.W. Suite 330 - G Street Lobby Washington, D.C. 20005-5701 Telephone: (202) 638-5000 Facsimile: (202) 638-4808

-- January 13, 1999

James A. Poulos, III Reg. No. 31,714

<u>xx</u> Attorney or agent of recordFiled under Section 1.34(a)

POU:fcs

Enclosures:

(Date)

Petition for Extension of Time Check No. 18459

Amendment



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of BRINATI ET AL)	Art Unit: 1713
Serial No. 08/885,770)	Examiner: M. SAROFIM
Filed: June 30, 1997)	
For: VDF POLYMERIZATION PROCESS)	

AMENDMENT

January 13, 1999

Assistant Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

In response to the Official Action mailed July 8, 1998, please amend the subject application as set forth below:

In the Claims

1.(Amended) VDF polymerization process, optionally modified with small amounts, generally comprised between 0.1 and 10% by moles, of one or more fluorocontaining comonomers, for preparing VDF polymers showing improved levels of white index, carried out in the presence of a microemulsion comprising a (per)fluoropolyether having neutral end groups, or microemulsions of fluoropolyoxyalkylenes having

hydrogen containing end groups and/or hydrogen-containing repeating units, or microemulsions of fluoropolyoxyalkylenes having hydrogen-containing end groups and/or hydrogen-containing repeating units and hydrocarbons C₁-C₂₀, of aliphatic, aromatic or mixed type, optionally containing halogens, said fluoropolyethers having number average molecular weight from 400 to 3000, and a surfactant based on perfluoropolyethers with a sodium carboxylate end group [carboxylic end group salts], said surfactant having a number molecular weight Mn comprised between 400-600, [preferably 400-550,] and having a distribution of molecular weight such that fractions having a number average molecular weight [higher] greater than 700 are not present or are present in amount of less than 5% by weight.

Kindly cancel claim 2 and rewrite it as new claim 13

--13. VDF polymerization process according to claim 1, wherein the surfactant based on perfluoropolyethers has the following formula

 $R_{f}O(CF_{2}CF(CF_{3})-O)_{m}-(CFY-O)_{n}-CF_{2}COONa$ wherein R_{f} is a C1 to C3 perfluoroalkyl group, $CICF_{2}CF(CF_{3})$ -, $CF_{3}CFCICF_{2}$ -, $CICF_{2}CF_{2}$, $CICF_{2}$ -; Y=-F, CF_{3} ; m' and n' are integers meeting the requirements of the number average molecular weight recited in claim 1. --

Kindly add the following new claim 14:

--14. The VDF polymerization process according to claim 1 wherein said surfactant has a number average molecular weight Mn comprised between 400-550.--

REMARKS

In order to more particularly point out the claimed invention, claim 1 is amended and claim 2 is rewritten as claim 13. The amendments in claim 1 find support in the specification at page 5, lines 21-23 and new claim 13 is supported by the specification at page 10, lines 6-10. No new matter is added.

It is applicant's position that amended claim 1 clearly recites novel limitations for producing a VDF polymer solving the technical problems existing in the art. The present invention is distinguished over Giannetti et al (US 4,864,006) and Abusleme et al (EPO 625,526).

The process of the invention is carried out in order to obtain VDF polymers endowed with improved levels of white index even after thermal treatment at high temperatures. Nowhere in the prior art cited by the Examiner is there any hint that the

process claimed in these patents would impart to the VDF polymers the properties above cited.

The results of the present invention are obtained by employing a surfactant based on perfluoropolyethers (PFPE) having carboxylic end group salified with a sodium salt. This feature is not present in the prior art cited by the Office. In fact, Giannetti's invention is carried out by using a surfactant PFPE having a carboxylic end group salified with NH₄⁺ while Abusleme's invention is carried out by using a surfactant PFPE having a carboxylic end group salified with K⁺. Furthermore, both Abusleme's and Giannetti's examples relate to a polymerization processes for producing tetrafluoroethylene (TFE) and not to processes for preparing VDF.

The Applicant has surprisingly and unexpectedly found that the use of a surfactant based on perfluoropolyethers with carboxylic end groups salified with NaOH and having the *narrow distribution of molecular weight (MWD)* as recited in claim 1, enables the manufacturer to obtain VDF polymers endowed with improved levels of white index in comparison with salified surfactants not having the MWD as recited in claim 1 of the present application.

Thus, applicants respectfully traverse the position of the Office that "Giannetti's 6 carbon surfactants as disclosed would inculcate to applicants claimed molecular weight". Even if Giannetti's surfactants have an average molecular weight within the range of claim 1, these surfactants surely do not possess the molecular weight distribution such that fractions having a number average weight greater than 700 are present in amount less than 5% by weight. In fact, in Giannetti's invention no such selection of fractions having a number average weight is disclosed in order to reduce the presence in the surfactant of the fractions having molecular weights greater than 700. This is an important point because it is this characteristic of the process that allows one to obtain Applicant's improvement. The key feature of Applicant's invention is to reduce in the surfactant the presence of said fractions to an amount less than 5% by weight.

The Office should take note that comparative Example 3 of the present application is an example disclosing the use of a microemulsion according to Giannetti et al, wherein the surfactant has an average molecular weight of 570, but it contains 28% by weight of fractions having a molecular weight greater than 700. This surfactant, characterized by a wide distribution of molecular weights, is outside the conditions recited in claim 1 of the present application. In fact, the surfactant according to Giannetti causes the final polymer product to have large values of residual surfactant

and low levels of white index. This is shown in tables 2 and 3 of the specification, wherein comparisons between the microemulsion according to the present invention (Example 1) and microemulsion according to Giannetti et al (Example 3) are presented.

Furthermore, in these documents there is neither mention of a surfactant possessing the characteristics of claim 1 of the present invention nor disclosure - directed to discoloration and the white index of the final polymer. Consequently, a person of ordinary skill in the art would not infer from these references how to solve the technical problem solved by the present invention.

In view of the foregoing applicants respectfully submit that the subject application is now in condition for a receipt of a Notice of Allowance.

In the event this paper is deemed not timely filed the applicant hereby petitions for an appropriate extension of time. The fee for this extension may be charged to Deposit Account No.14-1060 along with any other additional fees which may be required with respect to this paper; any overpayment should be credited to the account.

Respectfully submitted, Nikaido, Marmelstein, Murray & Oram, LLP

> James A. Poulos, III Registration No. 31,714

Nikaido, Marmelstein, Murray & Oram, LLP Metropolitan Square 655 Fifteenth Street, NW Washington, D.C. 20005-5701 (202) 638-5000

Attorney Docket No. 8910-8056